

ANGOLAN EMBIIDS

<u>Scelembia</u>	<u>malkini</u> (Ross)	Luanda
"	<u>wilkenae</u> (Ross)	Dundo
"	<u>ariaga</u> n. sp.	5 Mi. S. Vila Ariaga
"	<u>negolae</u> n. sp.	N'gola 1550 mns
"	<u>orarius</u> n. sp.	19 Mi S. Maxima etc.

Machadoembia angolica Ross Dundo

Machadoembia n. spp.

Embria moçanea n. sp. 19 Mi S. Vila Roadas

<u>Dihybrocerus</u>	<u>angolensis</u> n. sp.	10 Mi S. Sa da Bandeira
"	<u>pallidus</u> n. sp.	7 Mi N. Vila Pereira d'Eca

Entomembia angolensis n. sp. 10 Mi N.W. Conde

Melanembia bifida n. sp. 5 Mi S. Vila Ariaga

Aspidembia serrata bandeirica n. sp. 20 mi N.E. Sa da Bandeira

Eremembia ensigera n. sp. SWA Fish R. Cyn. (about 40 mi from Klein Keras)

VIII-20-58

Paroligembia angolica Ross 25 km N.E. Moramedes

Cameroon Embiids

✓ Plesembria camerounensis (Ver.) Kumba

✓ Plesembria convergens n. sp. Beau, flight at dusk

Plesembria aethiopicorum Kumba

Condylombria rageani n. sp. Yaounde

✓ " dissimilis R-K. Kumba

✓ Embia fabulatrix Endl. Rei Buba

✓ Holoembria rageani n. sp. Yaounde

671
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68
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27

ANGOLAN CULTURES

A-1 ANGOLA: 18 MI. N. LUANDA, 120 M, XII-1-66

Savanna with clumps of baobabs, euphorbia, thorn-trees. This culture from under bark of slender dead branches. Some surface web but all embriids under bark. Could be S. malakini

A-2 ANGOLA: 11 MI. W. V. SALAZAR, 420 M, XII-3-66

Escarpment with high tropical forest subject to long dry periods. No moss or epiphytes on trunks. Under story cleared and planted with coffee. Culture contains 1 adult ♀ Parthenembria in old bark in crevices of buttressed tree. Silk elastic.

A-3 Same place but mostly, if not all, Sclemobia ♀ and young. Some colonies entirely on under surface of flakes.

A-4 ANGOLA: 10 MI. W. MALANGE, 1120 M, XII-4-66
Low, dense savanna on tops of flat-topped ridge. Sclemobia, 2 sp? collected in shallow galleries on termite mds, ledge crevices and bark. Eggs and early young present. Eggs of B+W ♀ laid under layers of dense silk.

A-5 Same place. One ♀ of Parthenembria ♀, in crevices of dead limb on low tree. May include Sclemobia.

A-6 ANGOLA: 7 MI. W. XANDEL, 1170 M, XII-4-66

High Katanga-type savanna woodland on flat-topped mesa in full leaf. Culture of large pale species in bark of recently-dead roadside trees. Large loose-silk galleries extend over lichens, splits. 3 ♀ together with huge broods of 2-3rd instar.

A-7 Same place Small culture of some species

A-8 Same place Culture of 2-3 ♀ of Parthenembria in crevices of dead twigs, bark etc.

A-9 Same place and niche, species?

A - 10 ANGOLA: 30 MI. E. XANDEL, 820 M, XII-5-66

Low open savanna woodland, many open areas but typical Katanga-type. Collected on recently-felled roadside trees. This culture contains 2-3 large B+w. n. sp. ♀s with egg masses and 1st instar young, one preserved. One nest with eggs photographed. Specie has very slight gallery system on rough bark surface. Remains concealed in crevice retreat.

ENTOMEMBIA

A - 11 Same place and niche

May contain Parthenembia and 1-2 spp. Scelembia.

A - 12 Same place, niche, and contents.

Young brood from large pale species webbing patch of underside of limb prob same sp. as A-6

A - 13 ANGOLA: 10 MI. N. SAO COMBA DAO, 1230 M, XII-6-66

Savanna in broad valley. Scelembia and Parthenembia 1♀ in bark crevices of felled tree, underside of trunk. Embididae

A - 14 ANGOLA: 6 MI. S. ROBERT WILLIAMS, 1630 M, XII-7-66

Low, cut-over savanna, occasional granite outcrops. Heavy rain night before. Large Rd + Bl granite flake at base of kopje. 2 ♂s (Dihyboearus?) under leaves 12:30 PM, overcast day, rain approaching. 1 male added to culture to insure mating.

A - 15 Same place.

1 all black Scelembia in crevice of limb under loose bark

A - 16 ANGOLA: 2 MI. N. CACONDA, 1650 M, XII-8-66

1 juv orange + black species under bark of recently-cut stumps in high savanna woods.

A - 17 Same place

Several total ♀ (synopsis?) in galleries on under surface of logs and limbs on ground. Wood usually burned. Also 1 Scel ♀ in same niche

A - 18 Same place

1 adult ♀ of red + bl. Dityb. and two nymphs, each with sclerogibbida larva attached. Each in burrow extending up from soil beneath a dead branch or small log. The female had extensive webs into curled leaves of litter.

A - 19 Same place

Several adult ♀ *Scelembia* in galleries under dead bark

A - 20 ANGOLA: 20 MI. S. CACONDA, ¹⁶⁸⁰ 1880 M, XII-8-66

Several adult ♀ *Scelembia* in galleries under dead bark. Prob. same sp. as A - 19

A - 21 ANGOLA: 23 MI. W. FOLGARES, 1200 M, XII-9-66

High araria savanna on undulating terrain with rock-studded rises with dense thorny thickets. Burned over but green grass just started due to first rains of season. Large culture of 3 dark ♀ (*Melanembia*?) with eggs or 1st instar. Arise from soil burrows beneath stones, into bases at edge or ^{on} under side of stone. Highly gregarious.

A - 22 Same place 1 ♀ and 1st instar of above A - 21

A - 23 Same place " " eggs " " "

A - 24 Same place

Small species radiating in moss and caked sand on lower edge of stone about 1/2 cultured. May be a terat.

A - 25 ANGOLA: 16 MI. W. PAIVA COUCEIRO, 1330 M, XII-9-66

Several nymphs of a red + brown species under stones and logs at base of granite kopje in savanna

A - 26 Same place:

One nest of *Scelembia* in bark on under surface of freshly fallen dry branch on ground.

A - 27 ANGOLA: 5 MI. N. SA DA BANDEIRA, 1800 M, XII-10-66

Low natural savanna on steep granite hill. *Scelembia* ♀ in crevices of exfoliating granite ledges ♀ + eggs only

A-28 ANGOLA: 38 MI. W. VILA ARRIAGA, 350 M., XII-11-66

Large dark brown ♀s and eggs, naked laid in plate, under dry bark of lime and scarred branch nodes of acacias in high, dense grove of trees following wash, recent rain, but biologically early. Surrounding hills with low shrub-like trees.

ENTOMOLOGY - A-28

A-29 Duplicate of above.

A-30 ANGOLA: 35 MI. S.E. MOCAMedes, 350 M., XII-12-66

Dry.

Undulating plateau with numerous Welwitschias in drainage as well as occasional low, flat-topped acacia. Numerous stones. Embiid webs numerous in leaf litter under Acacia but especially around trunk bases of Welwitschia, its leaf-shaded litter and leaf contact with ground. Galleries penetrate 1 adult ♀ and 2 pupae of Welwitschia caught may be of Embia.

A-32 ANGOLA: 24 MI. N.E. MOCAMedes, 400 M., XII-12-66

Sandy ^{baren} plain with koppies. Still within fog zone. Embiids in higher tufts in heavily-shaded, drafty defiles atop koppje, also on shaded side of fluted Euphorbia. Small teratembiid, 2 males caught.

A-33 Same

A-34 ANGOLA: 5 MI. E. VILA ARRIAGA, 920 M., XII-13-66

Dense scrub with baobabs. Recent heavy rain. "Spring". Large brown, prob. Melanembia bifida and some as A-28 on split, old insect-bored branch ends, bark often gone wood pinky. Large galleries following pith, or borings, or dug by large ♀. Eggs plastered on surface of cavity naked white much like A-28

ENTOMOLOGY - A-28

A-35 Same place

Solenobia arriaga ♀♀ from lichen-encrusted rocks ^(ledges) shade of brush. Naked white silk radiating from crevices.

A-36 Same place

1 juv. terat under exfoliating bark flakes on large tree bordering creek.

A-37 ANGOLA: 12 MI. E. VILA ARRIAGA, 1450M, XII-14-66

Near summit of west slope of escarpment above V. Arriaga
Good Brachystegia woodland in vale, granitic cliffs.
1♂ Selenibia in dead bark of limb.

A-38 ANGOLA: 12 MI. S.E. SA DA BANDERA, 1600M, XII-15-66

High Brachystegia woods, 3-4 half grown Diphylorenia
in matted leaves under stones and dead branches
each in separate place. Recent rain.

A-39 ANGOLA: 16 MI. S.E. JOAO DE ALMEIDA, 1350 M, XII-15-66

Mopane, next to granite koppje. Recent rain.
First females, eggs, and 1st insts under dry, old
bark of small limb of shrub-like tree in shade
of baobab. One ♀ in path channel. Eggs large, few
in number. About 3 ♀ cultured. PAROLIGRUMBIA

A-40 ANGOLA: 10 MI. S. CHIBEMBA, 1200M, XII-15-66

Mopane on normally-dry granitic sediments
Cultured 1 juv Diphylo.? in matted damp leaves
under stone in shaded thicket.

A-41 ANGOLA: 4 MI. S.E CAHAMA, 1100 M, XII-16-66

One juv (terat?) in crevice of black cotton soil under stone
on dry river channel, in shade of large tree. Near
river flowing in flood. Photographed woman with tin of H_2O

A-42 ANGOLA: 19 MI. S.E. ROCADAS, 1100 M, XII-16-66

One juv Embria in matted leaves under edge of deeply-
imbedded dry log in sand. In dense mopane forest

A-43 Some place.

Several young enclids in bark flakes of standing
tree. May be of a large species

A-44 ANGOLA: 10 MI. S.E. MONGUA, 1100 M, XII-17-66

1 adult ♀, 1 pupa of terat in bark flakes of
large oak-like tree in mopane on sandy flat.
♀ had a few large eggs in cell.

A-45 ANGOLA: 9 MI. N. V. PEREIRA D'ECA, 1080 M, XII-17-66

Mopane woodland with clumps of mixed trees and shrubs.
Large oak-like trees ~~to~~ with rough blackish bark flakes.
Recent rain. Large webs around branch butts and scars
radiating on surface in a thin veil-like web from deep
crevices or under bark. Females with egg clusters just
hatching.

New genus? + sp

A-46 Same place.

PAROLIGMIA

Teratombia scattered webs on rough bark.